

## Product datasheet for **RG208226**

### GNAL (NM\_182978) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GNAL (NM_182978) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GNAL
Synonyms:	DYT25
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG208226 representing NM\_182978  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGTCTGTGCTACAGTCTGCGGCCGCTGCTTTTCGGGGGCCAGGGGACGACCCCTGCGCGCCCTCGG  
 AGCCGCCGGTGGAGGACGCGCAGCCCGCCCGGCCCTGGCCCCAGTCCGGGCGGCCGAAGGGA  
 CACGGCCCGGACCCTGCTCCCTCGGGCGGCGAAGGGAGCCCGGCATGCGCTCGGCCCAAAGCAGACAAG  
 CCGAAGGAGAAGCGGCAGCGCACCGAGCAGCTTAGTGCCGAGGAGCGGAGGGCGCCAAGGAGCGCGAGG  
 CGGTCAAGGAGGCGAGGAAAGTGAAGCCGGGCATCGACCGCATGCTGCGCGACCAGAAGCGCGACCTGCA  
 GCAGACGCACCGGCTCCTGCTGCTCGGGGCTGGTGAAGTCTGGGAAAAGCACTATCGTCAAACAGATGAGG  
 ATCCTGCACGTCAATGGGTTAATCCCGAGGAAAAGAAACAGAAAATTCTGGACATCCGGAAAAATGTTA  
 AAGATGCTATCGTGACAATTGTTTCAGCAATGAGTACTATAATACCTCCAGTTCGCTGGCCAACCTGGA  
 AAACCAATTTGATCAGACTACATCAAGAGCATAGCCCTATCACTGACTTTGAATATCCAGGAATTC  
 TTTGACCATGTGAAAAAATTTGGGACGATGAAGGCGTGAAGGCATGCTTTGAGAGATCCAACGAATACC  
 AGCTGATTGACTGTGCACAATACTTCTGGAAAGAATCGACAGCGTCAGCTTGGTTGACTACACACCCAC  
 AGACCAGGACCTCCTCAGATGCAGAGTTCTGACATCTGGGATTTTGGAGACAGATTCCAAGTGGACAAA  
 GTAAACTCCACATGTTTGATGTTGGTGGCCAGAGGATGAGAGGAGAAAATGGATCCAGTGCTTTAACG  
 ATGTCACAGCTATCATTACGTCGACGCTGCAGTAGTACAACATGGTGATTGAGAGAAGATAACAACAC  
 CAACAGGCTGAGAGAGTCCCTGGATCTTTTGAAGCATCTGGAACAACAGGTGGTTACGGACATTTCT  
 ATCATCTTGTCTTGAACAAACAAGATATGCTGGCAGAAAAAGTCTTGGCAGGAAATCAAAAATGAAG  
 ACTATTTCCAGAATATGCAAAATATACTGTTCTGAAGACGCAACACCAGATGCAGGAGAAGATCCCAA  
 AGTTACAAGAGCCAAGTTCTTTATCCGGGACCTGTTTTGAGGATCAGCACGGCCACCGGTGACGGCAAA  
 CATTACTGCTACCCGCACTTACCTGCGCGTGGACACAGAGAACATCCGCAGGGTGTTCACGACTGCC  
 GCGACATCATCCAGCGGATGCACCTCAAGCAGTATGAGCTCTTG

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG208226 representing NM\_182978  
 Red=Cloning site Green=Tags(s)

MGLCYSLRPLLFGGPGDDPCAASEPPVEDAQAPAPALAPVRAAARDTARTLLPRGEGSPACARPKADK  
 PKEKRQRTEQLSAEEREAAKEREAVKEARKVSRGIDRMLRDQKRDLQQTHRLLLLGAGESGKSTIVKQMR  
 ILHVNGFNPEEKKQKILDIRKNVKDAIVTIVSAMSTIIPPVPLANPENQFRSDYIKSIAPITDFEYSQEF  
 FDHVKKLWDDEGVKACFERSNEYQLIDCAQYFLERIDSVSLVDYTPDQDLLRCRVLTSGIFETRFQVDK  
 VNFHMFVGGQRDERRKWIQCFNDVTAIIYVAACSSYNMVIREDNNTNRLRESLDLFEIWNRLRTIS  
 IILFLNKQDMLAEKVLAKGSKIETYFPEYANYTVPEDATPDAGEDPKVTRAKFFIRDLLRISTATGDGK  
 HCYPHFTCAVDTENIRRVFNDCRDIIQRMHLKQYELL

**TRTRPLE** – GFP Tag – V

**Chromatograms:**

[https://cdn.origene.com/chromatograms/ja3419\\_a02.zip](https://cdn.origene.com/chromatograms/ja3419_a02.zip)

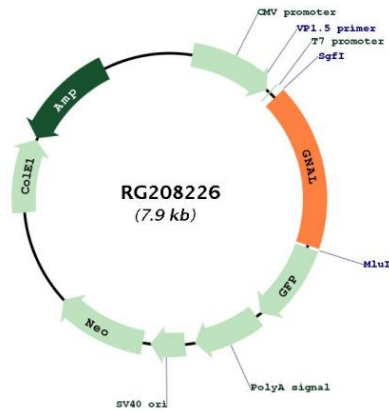
**Restriction Sites:**

Sgfl-Mlul



RefSeq Size:	6491 bp
RefSeq ORF:	1377 bp
Locus ID:	2774
UniProt ID:	<a href="#">P38405</a>
Cytogenetics:	18p11.21
Protein Families:	Druggable Genome
Protein Pathways:	Calcium signaling pathway, Olfactory transduction
Gene Summary:	This gene encodes a stimulatory G protein alpha subunit which mediates odorant signaling in the olfactory epithelium. This protein couples dopamine type 1 receptors and adenosine A2A receptors and is widely expressed in the central nervous system. Mutations in this gene have been associated with dystonia 25 and this gene is located in a susceptibility region for bipolar disorder and schizophrenia. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2013]

**Product images:**



Circular map for RG208226